

# XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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## Search for supersymmetry in events involving third generation squarks and sleptons with ATLAS

*Wednesday, March 28, 2012 10:48 AM (18 minutes)*

Supersymmetry with large mixing between left and right scalar fermions predicts that the lightest partners of the SM fermions belong to the third generation. Moreover, naturalness arguments favour stop masses not too far from that of the top quark. The talk presents results from searches for gluino mediated sbottom and stop production, direct sbottom production, and gluino and squark mediated stau production using data recorded with the ATLAS detector in 2011.

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**Session Classification:** Electroweak and searches

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